

MEMORANDUM



355553

SUBJECT: ROCK ISLAND COUNTY -John Deere Foundry
(Near Silvis) Cleanup and Abandonment of
Old Oil Lagoons

TO: DWPC/FOS and RU

FROM: James E. Kammueeller DWPC-FOS, Region 3

DATE: October 2, 1981

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ILL. EPA. - D.L.P.C.
STATE OF ILLINOIS

On the above date, Deere Environmental Engineer Ralph Grotelueschen called me and we discussed the industry's plans to clean and abandon the two oil lagoons on their property which used to belong to the Rock Island Railroad. The following is a summary of our discussion:

1. The southwest lagoon volume is around 50,000 gallons and the northeast lagoon volume is around 175,000 gallons.
2. The old Silvis yard which is now operated by the Chrome Crankshaft Company has a wastewater discharge into both of these lagoons. Deere plans on sealing these two outfalls from Chrome Crankshaft and may wind up in court over this.
3. The oil skimmed from the top of the lagoons is to be disposed of under a DLPC permit. The water in the lagoons is to be batch treated either within the lagoons by chemical addition or at the Deere Harvester facility. After treatment, the water will then be discharged either to the foundry's wastewater lagoon 003 or to the East Moline sewer system. Treatment is to be provided sufficient to reduce heavy metals down to Rule 408 limits or as required by the East Moline sewer use ordinance. Total chrome ranging from 20 to 28 mg/l has been found in the lagoons as has lead ranging from 3.5 to 5.3 mg/l and zinc ranging from 2.3 to 5.3 mg/l. The higher concentrations have been found in the southwest lagoon.
4. Bottom sludge from the lagoons is to be disposed of under a DLPC permit. Analysis on the bottom sludge to date has shown a chrome concentration of 1580 micrograms per gram but an EP toxicity of only 0.02 ppm, according to Mr. Grotelueschen.
5. Samples of the discharges from the Chrome Crankshaft Company indicate there may be heavy metals present in their effluents. Apparently, the Chrome Crankshaft Company has some type of treatment unit on site which is a source of these wastewater discharges and according to our files there is no permit for this facility or for its discharges. This will be field investigated in the near future. I believe Mark Haney of DLPC has already seen these facilities.

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- 2 -

6. Mr. Grotelueschen expressed an interest in getting all the liquid out of these lagoons prior to November 19, 1981 when apparently some more stringent RCRA regulations go into effect regarding liquid waste disposal.

The above is submitted to document this phone conversation and keep the files up to date.


James E. Kammuehler

JEK/11v/pm

cc: -DLPC/Permit Sect.
✓ -DLPC/Region 1
-Peoria Files